



THE UNIVERSITY OF ARIZONA

TUCSON, ARIZONA 85721

COLLEGE OF AGRICULTURE

DEPARTMENT OF WATERSHED MANAGEMENT

August 9, 1973

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E7.3 108.8.9.

CR-133527

Mr. Burton B. Schardt
ERTS Program Manager
Code ER, NASA Headquarters
Washington, D.C. 20546 .

Subject: Progress Report (Type I)
(June 1, 1973 - July 31, 1973)

Contract NAS 5-21820

- a. Use of Earth Resources Technological Satellite (ERTS)
Data in a Natural Resource Inventory (SRO 99).
- b. GSFC - UN 620
- c. Ernest B. Fish, Principal Investigator, left the University
of Arizona for employment at Texas Tech University in early
July. This slowed progress slightly, but considerable time
was spent in the field and laboratory by new personnel with
Dr. Fish prior to his leaving. Work on the project is pro-
gressing with continuity and on schedule. Request has been
submitted for principal investigator to be Phil R. Ogden.
- d. The major effort during this reporting period has been to
field sample taxonomic units within geomorphic-soil-vegeta-
tion mapping units. Within each mapping unit designated on
imagery obtained from high altitude aircraft, image classes
have been identified and sample sites selected within these
for collection of ground truth.

Within selected mapping units, several methods of determining
drainage density from imagery were used to collect data, and
proportions of image classes found in each mapping unit were
determined by dot grid counts. These data will be used to
select techniques and parameters which can be obtained from
imagery and utilized to group similar mapping units.

The major effort during the next reporting period will be to
obtain ground truth data from field sampling.

(E73-10889) USE OF EARTH RESOURCES
TECHNOLOGICAL SATELLITE (ERTS) DATA IN A
NATURAL RESOURCE INVENTORY Progress
Report, 1 Jun. - 31 Jul. 1973 (Arizona
Univ., Tucson.) 2 p HC \$3.00 CSCL 08F

N73-29238

Unclas
G3/13 00889

- e. Not applicable at this time.
- f. Not applicable at this time.
- g. Not applicable at this time.
- h. None.
- i. None.
- j. None.
- k. None.

A handwritten signature in dark ink, appearing to read "Phil R. Ogden". The signature is fluid and cursive, with the first name "Phil" and last name "Ogden" clearly distinguishable.

Phil R. Ogden
for Ernest B. Fish
Principal Investigator